

Claims

What is claimed is

Sub 1. Joint arrangement for a surface structure, such as a protecting plate, element or the like, which surface structure is meant particularly for covering of ground together with one or several other surface structures for temporary protecting, coating and/or like of the ground, whereby in connection with each surface structure there has been arranged at least a joint arrangement for removable attachment of one or several adjacent surface structures to the same and thermal insulation (1), that comprises at least one, essentially plastic based, such as cellular, expanded, foamed plastic structured or a like thermal insulation layer (1'), whereby the joint arrangement comprises a joint piece (x), that is to be coupled by means of a locking assembly (y), for coupling of the adjacent surface structures with each other essentially by corners of the same, which joint piece (x) comprises known as such a right-angled, such as a square shaped frame part, whereby the locking assembly (y) is arranged by projections (y1) placed at the corners of the frame part and preferably by recesses (y2) of the same shape, that are placed underside the surface structure, and whereby to the bottom surface of the surface structure there has been arranged preferably an integral support arrangement (1a), that comprises a platform structure projecting from the basic wall thickness (s) of the surface structure, such as the thermal insulation layer (1'), **characterized** in, that the frame part (x1) of the joint piece (x), that has an open center, such as a framework-like structure is arranged to pass the recesses (1a') existing in the platform structure (1a), whereby the height of the recesses is arranged to correspond essentially at least to the thickness (h) of the frame part (x1).

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2. Joint arrangement according to claim 1, **characterized** in, that the platform structure (1a) is arranged by single and square shaped platforms (1a"), that are placed preferably all over the bottom surface of the surface structure, whereby the framepart (x1) of the joint piece is arranged to embed preferably four platforms (1a").

3. Joint arrangement according to claim 1 ~~or 2~~, **characterized** in, that at each corner of the surface structure there has been arranged two recesses (y2) one after the other at each side.

4. Joint arrangement according to <sup>claim 1</sup> ~~any of the claims 1-3~~ in an essentially square shaped surface structure, whereby the joint arrangement comprises coupling means (z), such as male-female couplers (z1, z2) being placed at the outer edges of the surface structures, **characterized in**, that both the male and female couplers (z1, z2) are arranged at opposite outer edges of the surface structure.

5. Joint arrangement according to claim 4, **characterized in**, that the male couplers (z1) are arranged by projections being placed at the lower edges of the longitudinal (p1) outer edges of the surface structure and correspondingly the female couplers (z2) by recesses being placed at the lower edges of the crosswise (p2) outer edges.

6. Joint arrangement according to claim 4 ~~or 5~~, **characterized in**, that the male and female couplers (z1, z2) comprise an auxiliary support/sealing assembly (z3), that is carried out by such as counterpart surfaces or the like being placed at the upper edge of the outer surface of the surface structure at an angle ( $\alpha$ ), that deviates essentially from the vertical direction, preferably at an angle of 15°, and being

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directed to opposite directions and/or to the same direction in respect to the surface structure.

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